

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 97-037  
NPDES PERMIT NO. CA0030066

WASTE DISCHARGE REQUIREMENTS FOR:

MISSION VALLEY ROCK COMPANY  
SUNOL  
ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, hereinafter called the Board, finds that:

1. Mission Valley Rock Company, hereinafter called the discharger, by application dated October 9, 1996, submitted a Report of Waste Discharge for issuance of waste discharge requirements and a permit to discharge wastewater to waters of the State and the United States under the National Pollutant Discharge Elimination System (NPDES).
2. The discharger harvests and processes sand and gravel, manufactures ready mix and asphalt concrete, and proposes to intermittently discharge decanted washwaters and rising groundwater to the Alameda and Sheridan Creeks. Groundwater from quarry pits is used to wash clays from the aggregates being processed. Wastewater consisting of sand and gravel wash water and rising groundwater leaves the plant and enters a series of four settling ponds where fine particulate matter and turbidity is removed. The clarified wastewater is then allowed to recharge into the aquifer from the final pond. Excess water that accumulates in the settling ponds will be discharged as follows:

DISCHARGE POINT	AVERAGE DISCHARGE RATE (mgd)	MAXIMUM DISCHARGE RATE (mgd)	DISCHARGE LOCATION
E-001	0.68	2.6	<b>Alameda Creek;</b> Lat. 37° 34' 30" Long. 121° 52' 15"
E-002	0.36	2.6	<b>Sheridan Creek;</b> Lat. 37° 34' 30" Long. 121° 52' 30"
E-003	1.4	1.4	<b>Alameda Creek;</b> Lat. 37° 34' 45" Long. 121° 52' 30"

3. Sewage wastes are disposed of to an onsite septic system.

9. The Basin Plan prohibits discharge to Alameda Creek, including its tributaries, during the dry weather period (May 1 through October 31 of each year). The Board may allow exceptions to the dry weather discharge prohibition when the Board finds that the discharge does not contain characteristics of concern to beneficial uses in Alameda Creek. The following information supports an exception to the Basin Plan's dry weather discharge prohibition:

The discharge contains no sewage-bearing wastes nor process waste added by the discharger's operations which are considered characteristics of concern to beneficial uses to Alameda Creek when no natural flow occurs.

10. The Board strongly encourages the discharger to participate in the Alameda Creek Watershed Management Planning (ACWMP) process to be initiated in the future. This process will integrate water quality monitoring, assessment, planning, standard setting, permit writing, nonpoint source management, groundwater protection and other programs to promote more efficient use of personnel and fiscal resources while ensuring maximum water quality protection benefits. ACWMP will be structured to dovetail with and enhance local community watershed protection efforts to implement cost-effective strategies for natural resource protection and to develop appropriate measures for mitigating impacts.

Alameda County Water District is currently in the process of developing a water quality policy to provide guidance to affected parties on the upstream watershed lands to better ensure protection of the waters tributary to Alameda Creek. The need for this policy stems from the increasing impacts of watershed activities, coupled with the need to provide aesthetically acceptable water supply. The intent of this policy is to guide the planning, development and operations of upstream land use activities so that the impacts of these activities do not result in the degradation of the Alameda Creek.

11. This Order serves as an NPDES Permit, adoption of which is exempt from the provisions of Chapter 3 (commencing with Section 21000) of Division 13 of the Public Resources Code [California Environmental Quality Act (CEQA)] pursuant to Section 13389 of the California Water Code.
12. The discharger and interested agencies and persons have been notified of the Board's intent to issue requirements for the existing discharge and have been provided an opportunity to submit their written views and recommendations.
13. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED**, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, and to the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, that the discharger shall comply with the following:

## A. DISCHARGE PROHIBITIONS

1. Discharge of treated wastewater at a location or in a manner different than that described herein is prohibited.
2. The bypass or overflow of untreated or partially treated wastewater to waters of the State is prohibited.
3. The treatment, reuse, or disposal of wastewaters shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
4. The discharge shall not contain silt, sand, clay or other earthen materials from any activity in quantities sufficient to cause deleterious bottom deposits, turbidity, or discolorations in surface waters or to unreasonably affect or threaten to affect beneficial uses.
5. Discharges of water, materials, or wastes other than storm water, which are not otherwise authorized by this NPDES permit, to a storm drain system, settling ponds, or waters of the State are prohibited.

## B. EFFLUENT LIMITATIONS

1. Effluent discharged shall not exceed the following limits:

Constituents	Daily Maximum	Weekly Average	Monthly Average	Annual Average
a. Total Dissolved Solids (mg/l)	400	---	---	350
b. Chlorides (mg/l)	250	---	---	60
c. Turbidity (NTU)	40	---	---	---
d. Total Settleable Solids (ml/l-hr.)	0.2	---	0.1	---
e. Total Suspended Solids (mg/l)	---	45	30	---

2. The pH of the discharge shall not be less than 6.5 nor greater than 8.5.
3. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

### Acute Toxicity:

The survival of organisms in undiluted effluent shall be an eleven (11) sample median value of not less than 90 percent survival, and an eleven (11) sample 90

percentile value of not less than 70 percent survival. The eleven sample median and 90th percentile effluent limitations are defined as follows:

- |                   |  |
|-------------------|--|
| 11 sample median: | A bioassay test showing survival of less than 90 percent represents a violation of this effluent limit, if five or more of the past ten or less bioassay tests show less than 90 percent survival. |
| 90th percentile:  | A bioassay test showing survival of less than 70 percent represents a violation of this effluent limit, if one or more of the past ten or less bioassay tests show less than 70 percent survival.  |

### C. RECEIVING WATER LIMITATIONS

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place at levels that cause nuisance or adversely affect beneficial uses:
  - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
  - b. Bottom deposits or aquatic growths to the extent that such deposits or growths cause nuisance or adversely affect beneficial uses;
  - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
  - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
  - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on wildlife, waterfowl, or other aquatic biota, or which render any of these unfit for human consumption, either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State anyone place within one foot of the water surface:
  - a. Dissolved Oxygen                      5.0 mg/l, minimum  
  
The median dissolved oxygen concentration for any three consecutive months shall not be less than 80% of the dissolved oxygen content at saturation. When natural factors cause concentrations less than that specified above, then the discharge shall not cause further reduction in ambient dissolved oxygen concentrations.
  - b. Dissolved Sulfide                      0.1 mg/l, maximum
  - c. pH    Variation from normal ambient pH by more than 0.5 pH units.

- d. No increase in turbidity above present natural background levels in the Alameda and Sheridan Creeks by more than following:

<u>Alameda Creek Background</u>	<u>Incremental Increase</u>
50 units (NTU)	5 units, maximum
50 - 100 units	10 units, maximum
100 units	10% of background, maximum

3. The discharge shall not cause a violation of any particular water quality standard for receiving waters adopted by the Board or the State Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

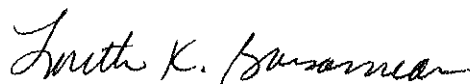
#### D. PROVISIONS

1. The discharger shall comply with all sections of this Order immediately upon adoption.
2. The discharger shall comply with the Self-Monitoring Program for this order, as adopted by the Board and as may be amended by the Executive Officer.
3. The discharger shall comply with all applicable items of the attached "Standard Provisions and Reporting Requirements " dated August 1993, or any amendments thereafter.
4. Compliance with Acute Toxicity Effluent Limitation
  - a. Compliance with the Effluent Limitation for Acute Toxicity shall be evaluated by measuring survival of test fishes exposed to undiluted effluent for 96 hours in static renewal bioassays. Two fish species shall be tested concurrently. Each fish species represents a single bioassay.
  - b. The two compliance species shall be as specified in the Table 1 of the Self-Monitoring Program. The discharger shall conduct a minimum of one screening of three species: three-spine stickleback, rainbow trout and fathead minow. All tests in a single screening must be completed within ten days of each other. The three species screening requirement can be met using either flow-through or static renewal bioassays. The discharger shall submit screening data acceptable to the Executive Officer, within 3 months after adoption of this Order.
  - c. The Executive Officer may consider allowing compliance monitoring with only one fish species (the most sensitive of two) if the discharger can document that the acute

toxicity limitation, specified above, has not been exceeded during the previous three years, or that acute toxicity has been observed in only one of two fish species.

- d. All bioassays shall be performed according to protocols approved by the USEPA or State Board, or published by the American Society for Testing and Materials (ASTM) or American Public Health Association.
5. Wastes from production and processing operations including storm runoff from areas used for loading or washing trucks, shall either be contained on site or routed into sand and gravel wash water settling ponds.
6. The discharger shall notify Alameda County Water District at least 24 hours prior to start-ups and planned shut-downs of discharge to surface streams.
7. The Board may modify, or revoke and issue, this Order and Permit if present or future investigations demonstrate that the discharge(s) governed by this Order are causing or significantly contributing to adverse impacts on water quality and/or beneficial uses of the receiving waters.
8. This Order expires on March 19, 2002. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days before this expiration date as application for issuance of waste discharge requirements.
9. This Order shall serve as a National Pollutant Discharge Elimination System (NPDES) permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after the date of its adoption provided the Regional Administrator, USEPA, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

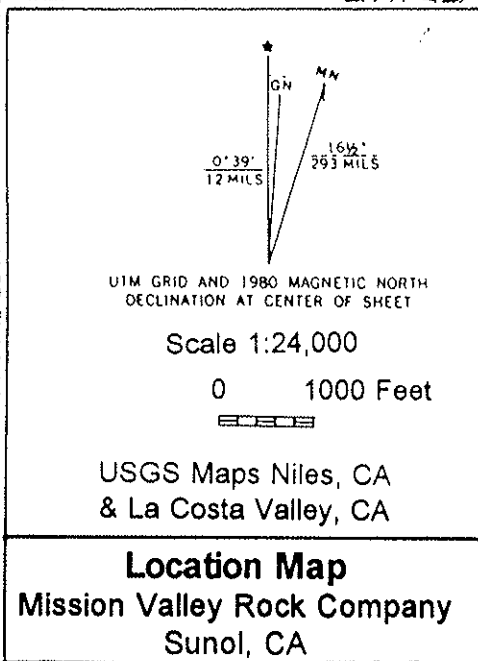
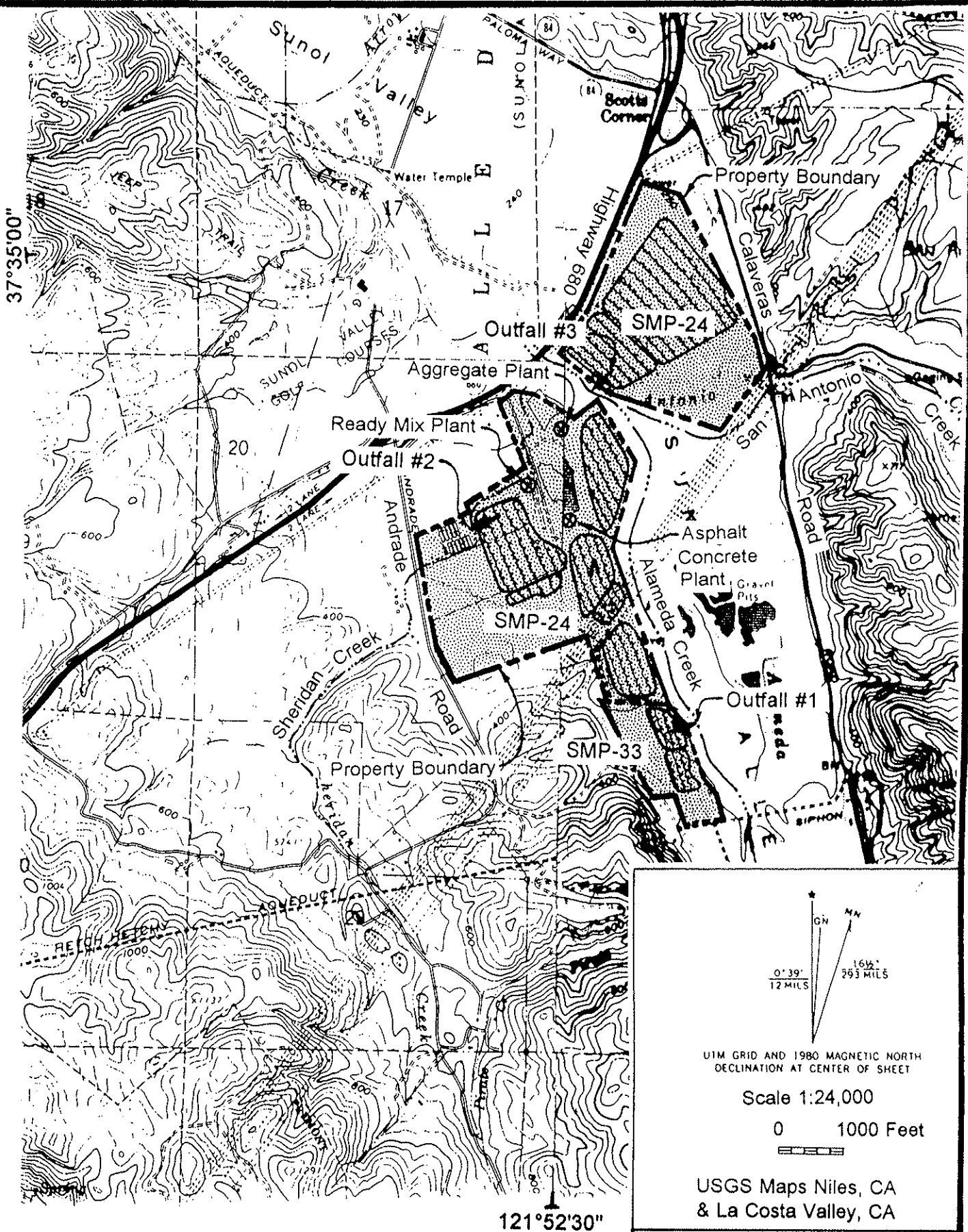
I, Loretta K. Barsamian, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 19, 1997.



LORETTA K. BARSAMIAN  
Executive Officer

Attachments:

Location Map  
Self-Monitoring Program  
Standard Provisions and Reporting Requirements - August 1993



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

MISSION VALLEY ROCK COMPANY  
SUNOL, ALAMEDA COUNTY

NPDES NO. CA0030066  
ORDER NO. 97-037

CONSISTS OF  
PART A  
AND  
PART B

## **PART B**

### **I. Description of Sampling Stations**

#### **A. EFFLUENT**

<u>Station</u>	<u>Description</u>
E-001	At any point in the outfall between the point of discharge to Alameda Creek (001) and the point at which all waste tributary to that outfall is present.
E-002	At any point in the outfall between the point of discharge to Sheridan Creek (002) and the point at which all waste tributary to that outfall is present.
E-003	At any point in the outfall between the point of discharge to Alameda Creek (003) and the point at which all waste tributary to that outfall is present.

#### **B. RECEIVING WATERS**

<u>Station</u>	<u>Description</u>
C-1	At a point in Alameda Creek located 50 feet upstream of Discharge Point E-001.
C-2	At a point in Sheridan Creek 50 feet upstream of Discharge Point E-002.
C-3	At a point in Sheridan Creek located 50 feet downstream of Discharge Point E-002.
C-4	At a point in Alameda Creek located 50 feet down stream of Discharge Point E-003.

### **II. Schedule of Sampling and Analysis**

- A. The schedule of sampling and analysis shall be that given as Table I.
- B. A map showing the location and identity of each station sampled shall be submitted with each monitoring report.

III. MODIFICATION OF PART A (dated August 1993)

- A. Paragraph F.4. is modified to include the following: "If no discharge occurred during the monthly reporting period, a letter certifying this shall be submitted to the Regional Board. The letter may be submitted quarterly after the facility has not discharged for at least one year."
- B. Paragraph F.4.c. is modified to read as follows:

Summary tabulations of the data shall include for each constituent total number of analyses, maximum, minimum, and average values for each period. Flow data shall be included. The original is to be submitted to:


Executive Officer  
California Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612

and a copy is to be submitted to:

General Manager Groundwater Resources Supervisor	
Zone 7 Water Agency	Alameda County Water District
5997 Parkside Drive	P.O.Box 5110
Pleasanton, CA 94588	Fremont, CA 94537

I, Loretta K. Barsamian, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 97-037.
2. Is effective on March 19, 1996.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

  
LORETTA K. BARSAMIAN  
Executive Officer

Attachments:  
Part A (August 1993)

TABLE 1  
SCHEDULE OF SAMPLING, MEASUREMENTS, AND ANALYSIS  
ORDER NO. 97-037

Sampling Station	E-001, E-002, E-003 <sup>(d)</sup>			C-1 <sup>(a)</sup>		C-2 <sup>(a)</sup>		C-3 <sup>(a)</sup>		C-4 <sup>(a)</sup>	
Type of Sample	C-24	G	O	G	O	G	O	G	O	G	O
Flow Rate (mgd)	D										
Settleable Matter (mg/l & Kgs/day)		W									
Fish Toxicity, 96-hr. TL-50 <sup>(b)</sup> % Survival in undiluted waste		2/Y									
Turbidity (NTU)		W		W		W		W		W	
Chloride (mg/l & Kgs/day)		M		M							
pH (units)		W		W		W		W		W	
Dissolved Oxygen (mg/l & % saturation)		M									
Temperature (°C)		M									
Total Dissolved Solids* (mg/l & Kgs/day)		M		M		M		M		M	
All Applicable Standard Observations			D		D		D		D		D

## LEGEND

### TYPES OF SAMPLES

G = grab sample  
C-24 = composite - 24-hour  
O = observation

### TYPES OF STATIONS

E = waste effluent stations  
C = receiving water stations

### FREQUENCY OF SAMPLING

D = daily when discharging  
W = once per week during each week in which discharge occurs  
M = once per month during each month in which discharge occurs  
Y = once per year during each year in which discharge occurs  
2/Y = twice per year, once during each spring (March-May) and once during fall (September - November) period in which discharge occurs

### TABLE 1 FOOT NOTES

- a. The "C" stations shall be sampled only when a discharge occurs and when there is surface flow at these stations.
- b. Rainbow trout shall be used to determine compliance with Effluent limitation A.3. The tests shall be 96-hour static renewal bioassays.
- c. The composite samples for Total Dissolved Solids (TDS) and Acute Toxicity shall be analyzed by a certified laboratory in accordance with Standard Methods for the Examination of Water and Wastewater (latest edition).
- d. The "E" stations shall be sampled only when there is a discharge. Stations E-001, E-002, and E-003 shall be sampled separately when there is a discharge. Each sample shall be analyzed separately for all parameters except Fish Toxicity, for which a single flow-proportioned sample may be used.